Small sized network environment

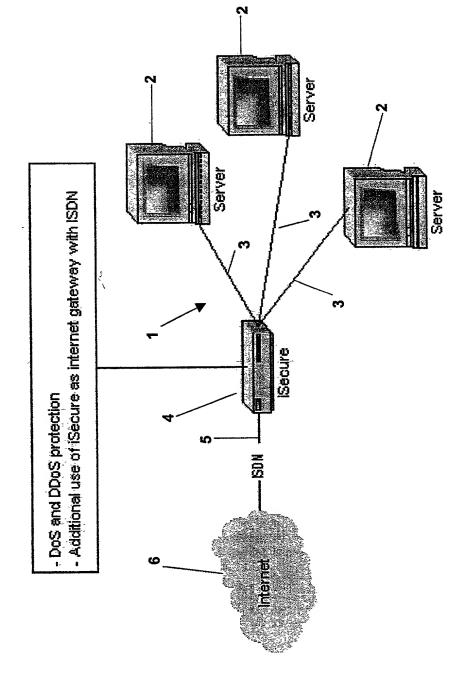


Fig. 1

Medium sized network environment

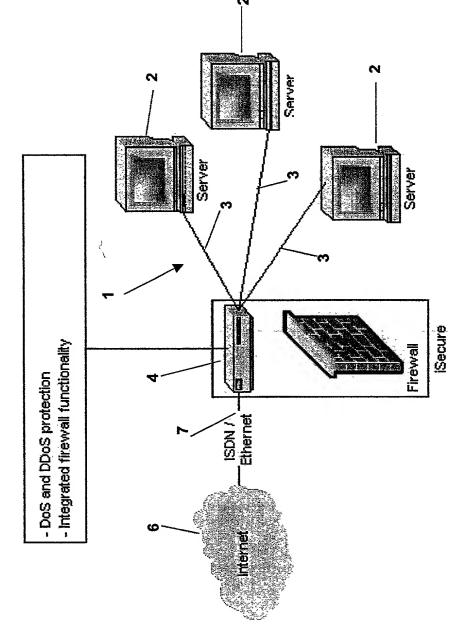


Fig. 2

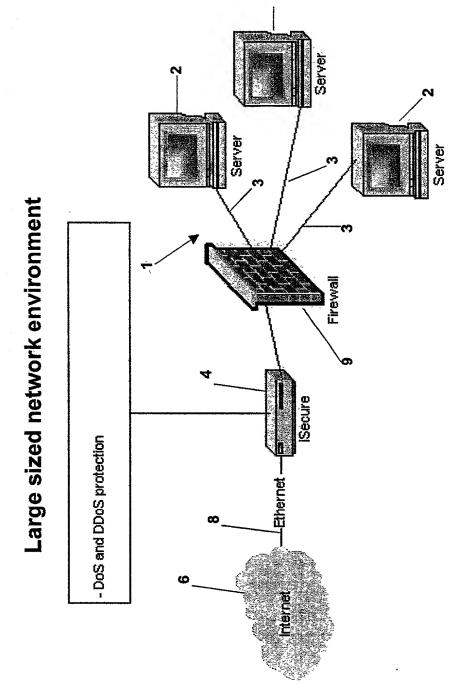


Fig. 3

establishing a connection with the authorized / normal use of the protocol

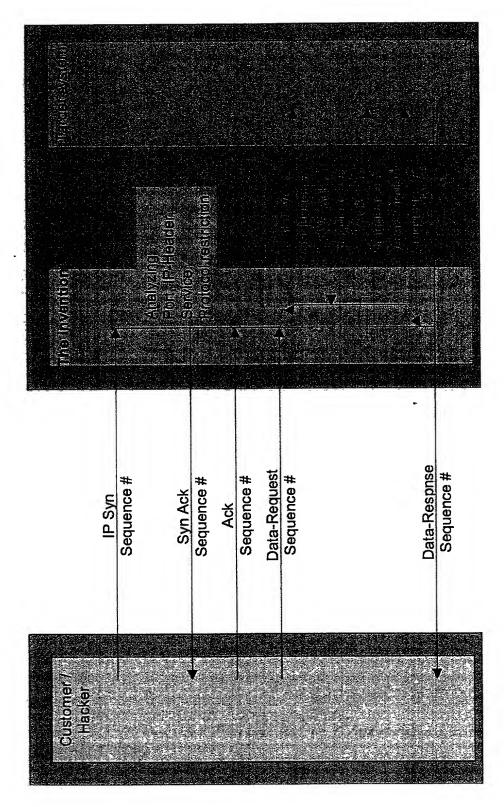


Fig. 4

establishing a connection with the non-authorized / not normal use of the protocol

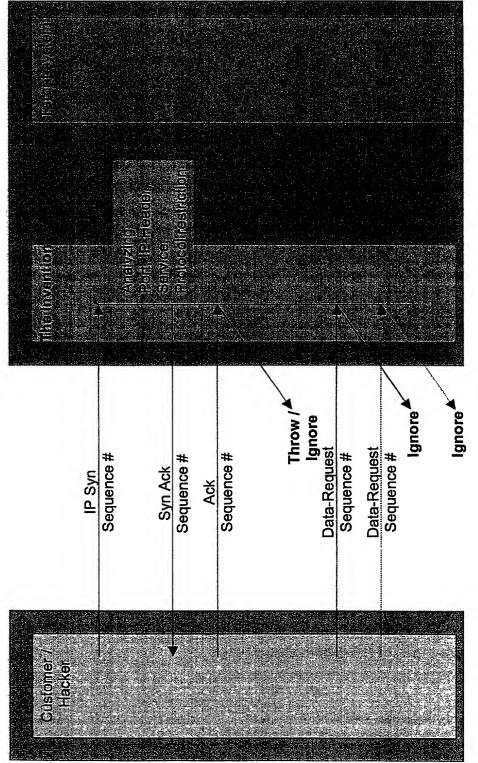
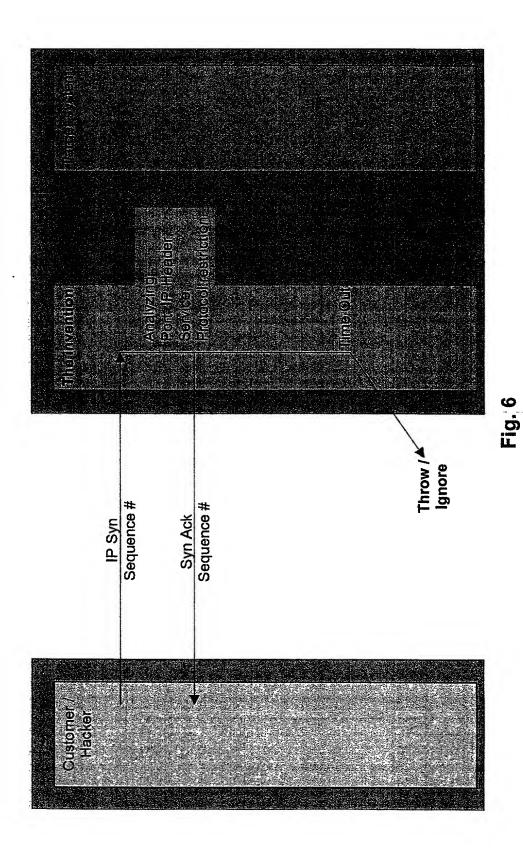


Fig. 5

Failing to establish a connection



After establishing a connection with authorized / normal flow of data

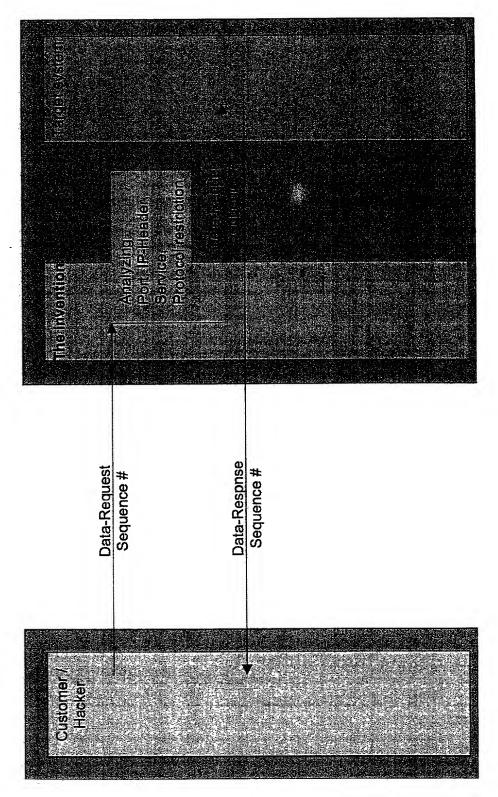


Fig. 7

After establishing a connection with non-authorized / not normal flow of data

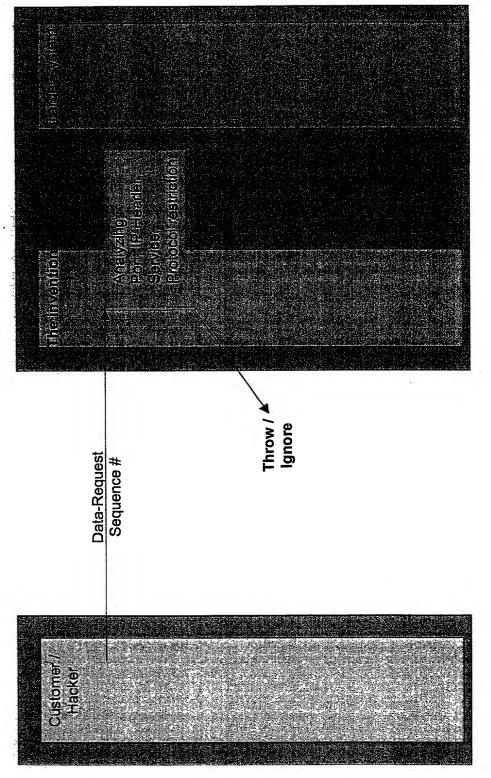


Fig. 8

Application Layer
Presentation Layer
Session Layer
Transport Layer
Network Layer
Link Level

protocol layers

protected

Fig. 9

IP-Header

32 Bits

Version	HF	Type of Service		Total Length
	Identii	Identification	O # ∑ #	Fragment Offset
Time to Live	Live	Protocol	Ī	Header Checksum
		Source	Source Address	
		Destionation Address	on Addres	98
		Options		Padding

Fig. 10

TCP-Header

32 Bits

ו Port			v Size	Urgent Pointer	Padding
Destination Port	umber	ant Number	Window Size	Urgent	
	Sequence Number	Acknowledgement Number	control		Options
Source Port		Ack	der Reserviert	Source Port	
S			TCP Header length	0)	

Fig. 11

UDP-Header

Destination Port UDP Checksum 32 Bits **Source Port UDP** Length

Fig. 12

IP-Header data part

ICMP Type	épog dividi	ICMP Checksum
	reserved	
IP-Heade	IP-Header and 64 bits original datagram	atagram
ICMP Type	ICMP Code	ICMP Checksum
Pointer	rese	reserved
IP-Heade	IP-Header and 64 bits original datagram	latagram
ICMP Type	ICMP Code	ICMP Checksum
Identification	Sequence Number	
	ICMP Echo Data	

Fig. 13